1/7 **Guanosine Modifications used in the study** 

FIG. 1A

# 5'-NNNNX1X2CGX3X4NNNN-3'.

Abasic (1', 2'-deoxyribose)

Oligo **91-3**: 
$$X_1 = R$$
,  $X_2 = A$ ,  $X_3 = T$ ,  $X_4 = T$ 

Oligo 91-4: 
$$X_2 = R$$
,  $X_1 = G$ ,  $X_3 = T$ ,  $X_4 = T$ 

#### FIG. 1B-1

0=P. 0=0 1=0

Д ||

# 5'-NNNNX1X2CGX3X4NNNN-3'.

Abasic (1,3-propanediol)

Oligo 109-4 : 
$$X_1 = R$$
,  $X_2 = A$ ,  $X_3 = T$ ,  $X_4 = T$ 

# 5'-NNNNX1X2CGX3X4NNNN-3'.

3-Nitropyrrole Oligo 105-4 : 
$$X_1 = R$$
,  $X_2 = A$ ,  $X_3 = T$ ,  $X_4 = T$  Oligo 105-3:  $X_2 = R$ ,  $X_1 = G$ ,  $X_3 = T$ ,  $X_4 = T$   $O$ 

FIG. 1B-3

# 5'-NNNNX1X2CGX3X4NNNN-3'.

5-Nitroindole
Oligo 107-4: 
$$X_1 = R$$
,  $X_2 = A$ ,  $X_3 = T$ ,  $X_4 = T$ 
Oligo 107-7:  $X_4 = R$ ,  $X_1 = G$ ,  $X_2 = A$ ,  $X_3 = T$ 

$$\begin{array}{c} O \\ O \\ O \\ S \\ O \end{array}$$

FIG. 1B-4

1',2'-Dideoxyribose Substitution

HYB No.	Sequences and Modification (5'-3')	Batch No.
HYB1158	CTATCTGACGTTCTCTGT	D7-131-1
HYB1160	CTAXXTGACGTTCTCTGT	D7-131-12
HYB1161	CTATCTGAXGTTCTCTGT	D7-131-13

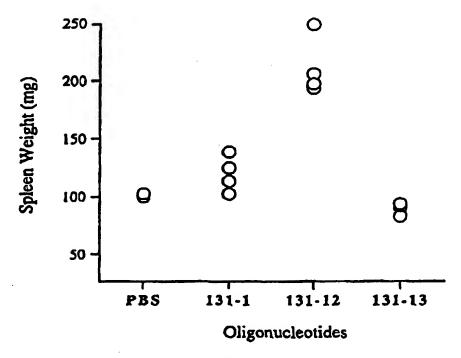


FIG. 2B

1',2'-Dideoxyribose Substitution

HYB No.	Sequences and Modification (5'-3')	Batch No.
HYB1159	CCTACTAG <u>CG</u> TTCTCATC	D7-133-1
HYB1162	CCTXXTAGCGTTCTCATC	D7-133-12
HYB1163	CCTACTAGXGTTCTCATC	D7-133-13

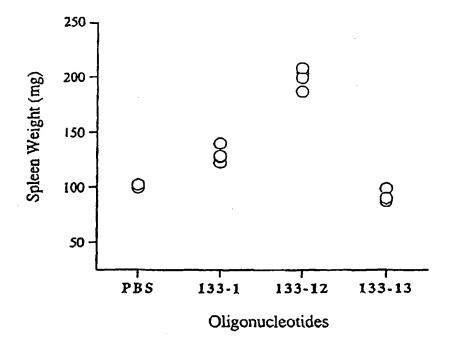


FIG. 3B